

**METHOD AND APPARATUS FOR IMPLEMENTING AUTOMATED
ELECTRONIC PACKAGE TRANSMISSION LINE CHARACTERISTIC
IMPEDANCE VERIFICATION**

Abstract of the Disclosure

- 5 A method and apparatus are provided for implementing automated electronic package transmission line characteristic impedance verification. A sinusoidal voltage source is coupled to a transmission line test structure for generating a selected frequency. Impedance measuring circuitry is coupled to the transmission line test structure for measuring an input impedance with
- 10 an open-circuit termination and a short-circuit termination. Characteristic impedance calculation circuitry is coupled to the impedance measuring circuitry receiving the input impedance measured values for the open-circuit termination and the short-circuit termination for calculating characteristic impedance. Logic circuitry is coupled to the characteristic impedance
- 15 calculation circuitry for comparing the calculated characteristic impedance with threshold values for verifying acceptable electronic package transmission line characteristic impedance.